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list being brought down to January, 1891, and considerable information added to that already printed in the Journal. While the list is of not quite the importance to American botanists that it is to English there is so much matter of direct application to our own Botany that it really ought to be in the hands of all. We are so much interested in the success of this project that we will receive subscriptions to the work at \$1 per copy, payments to be made when the book is received. N. L. B.

### Index to Recent Literature relating to American Botany.

*Actinella (Hymenoxis) Texana*, n. sp. John M. Coulter and J. N. Rose. (Bot. Gaz. xvi. 27, 28).

*Algæ and Mosses. The Geological Work of.* W. H. Weed. (Am. Geol. vii, 48, 55).

This is in the nature of an abstract of the monograph upon the subject prepared by the author and published in the Ninth Ann. Rept. U. S. Geol. Surv., previously reviewed in the BULLETIN.

*Apical Growth in the Roots of Osmunda and Botrychium*, —Notes on the. D. H. Campbell. (Bot. Gaz. xvi. 37-43, Pl. v).

*Asplenium Filix-fœmina as a Tree Fern.* Katharine Brandegee. (Zoe, i. 293-295).

*Catalogue of the Anthophyta and Pteridophyta of Ames, Iowa.* A. S. Hitchcock. (Trans. St. Louis Acad. Sci. v. 477-532; reprinted "Contributions from the Shaw School of Botany," No. 7).

This is one of the most carefully prepared and valuable local floras ever published, giving the results of the author's studies in the vicinity of Ames during the past seven years. Localities for the rarer species are given in detail. The principle of using the earliest specific name has been closely adhered to, the original author being cited in parenthesis. Many critical and very useful notes on nomenclature and determination of species are given. Several old names are here first taken up, as follows: *Anemone patens*, L. var. *hirsutissima* (Pursh), for var. *Nuttalliana*, A. Gray; *Anemone Hepatica*, L. var. *acuta* (Pursh), for *Hepatica acutiloba*, DC.; *Viola palmata*, L. var. *obliqua* (Hill), for var.

*cucullata*, A. Gray; *Kuhnia eupatorioides*, L. var. *glutinosa* (Ell.), for var. *corymbulosa*, Torr. & Gray; *Dysodia papposa* (Vent.), for *D. chrysanthemoides*, Lag.; *Lactuca spicata* (Lam.), for *L. leucophæa*, A. Gray; *Steironema quadriflorum* (Sims), for *S. longifolium*, A. Gray; *Acerates Floridana* (Lam.), for *A. longifolia*, Ell.; *Gentiana quinquefolia*, L. var. *occidentalis*, for *G. quinqueflora*, var. *occidentalis*, A. Gray; (there is a misprint in the spelling of the specific name of the synonym); *Stachys aspera*, Michx., var. *tenuiflora* (Willd.), for var. *glabra*, A. Gray; *Carex trichocarpa*, Muhl. var. *læviconica* (Dewey), for var. *Deweyi*, Bailey; *Diarrhena diandra* (Michx.), for *D. Americana*, Beauv. *Fraxinus viridis*, Michx. f., var. *pubescens* is described as new. There has been little effected in taking up old generic names, but we note that Mr. Hitchcock adopts *Castalia* for *Nymphæa* and *Homalocenchrus* for *Leersia*. The catalogue is a most important contribution to geographical botany, and should stimulate botanists all over the country to produce others of equal merit.

N. L. B.

*Catalogue of Canadian Plants.—Part V. Acrogens.* John Macoun. (8vo, pp. 249-428, Montreal, 1890).

This part completes the second volume of Prof. Macoun's great Catalogue, containing the Pteridophyta (the Filices and Ophioglossaceæ contributed by Dr. Burgess), included in Nos. 2956-3054. The greater part of the present fascicle is taken up with additions and notes on Parts I-IV. a very considerable number of Flowering Plants being added. Of these *Arabis Columbiana*, Macoun, and *Ruppia lacustris*, Macoun, are described as new; the latter is however antedated by Dr. Watson's name *R. occidentalis*, applied to the same plant. Mr. Macoun describes also two new varieties of *Carex canescens*. Prof. Scribner has studied the Gramineæ, new varieties and species being indicated in the genera *Alopecurus*, *Stipa*, *Agrostis* and *Festuca*. Mr. Arthur Bennett has examined the *Potamogetons*, and several novelties are listed. Part VI. of the Catalogue, including Characeæ, Musci and Hepaticæ is announced for the present year. We congratulate Prof. Macoun on the very successful progress his work. He is contributing more at the present time to our knowledge of North American Botany than any one else, and

through his endeavors the distribution of Canadian Plants is becoming thoroughly worked out. N. L. B.

*Catasetum fimbriatum*. (Bot. Mag. t. 7158).

*Choisya ternata*. (Gard. xxxix. 115, illustrated).

A description and representation of this plant as it appears in a Devonshire garden.

*Clethra alnifolia*, var. *tomentosa*. (Gard. and For. iv. 64, f. 14).

*Contributions à la Flore de l'Amérique équatoriale*. Em. Drake del Castillo. (Journ. de Bot. iii. 73-77, 237-240).

This is an enumeration of the Ericaceæ and Campanulaceæ collected by H. Poortmann in 1881-1882 in the Andes of Ecuador and Peru. New species are described in the genera *Macleania*, *Orthœa*, *Ceratostemma*, *Befaria* and *Centropogon*.

*Coreopsideæ and Tagetineæ—Studies in*. T. S. Brandegee. (Zoe, i. 308-314).

A discussion of species in the genera *Leptosyne*, *Heterospermum*, *Bidens*, *Porophyllum* and *Tagetes*, with descriptions of *Bidens nudata*, *B. refracta*, *Tagetes lacera* and *T. scabra* as new, all from Lower California.

*Dahlias in Mexico*. C. G. Pringle. (Gard. and For. iv. 50, 51).

Notes on *Dahlia pubescens*, *D. dissecta*, *D. coccinea* and *D. variabilis*.

*Descriptions of Three New Species of Myxomycetes, with Notes on other Forms in Century XXV. of Ellis and Everhart's North American Fungi*. Geo. A. Rex. (Proc. Acad. Nat. Sci. Phil. 1890, Part ii, 192-196).

The three new species described in this contribution are *Physarum tenerum*, *Trichia subfusca* and *T. erecta*.

*Diplacus*.—*Revision of the Genus*. Edward L. Greene. (Pittonia, ii. 141-157).

6 species are recognized. *D. longiflorus*, Nutt., replaces *D. arachnoides*, Greene, Bull. Cal. Acad. i. 210, and *D. grandiflorus* replaces *D. longiflorus*, Greene, l. c. i, 96. *D. stellatus*, Kell. and *D. latifolius*, Nutt. are referred to *D. glutinosus* (Wendl.), Nutt. as varieties.

*Dipladenia illustris*, var. *glabra*. (Bot. Mag. t. 7156).

*Euphorbiaceæ* Collected by T. S. Brandegee, principally in the vicinity of Todos Santos, Baja California, January and February, 1890. C. F. Millspaugh. (Zoe, ii, 346-348).

The following species are described as new: *Euphorbia* (*Anisophyllum*) *biserrata* and *E.* (*Alectrotonum*) *Watsoni*.

*Fritillaria recurva*. Carl Purdy. (West Am. Sci. vii. 67, figured).

*Fungi*—*New North American*. J. B. Ellis and B. M. Everhart. (Proc. Acad. Nat. Sci. Phil. 1890, 219-249).

The following are described as new: *Typhula subfasciculata*, *Stereum atrorubrum*, *Hymenochaete rugispora*, *Asterina rubicola*, *A. bignoniæ*, *Chaetomium pusillum*, (N. A. F. 2350), *Myriococcum consimile*, *Calosphæria alnicola*, *C. microsperma*, *Cælosphæria corticata*, *Diaporthe nivosa*, *Valsa floriformis*, *V. (Eutypella) canodisca*, *Pseudovalsa stylospora*, *Thyridoria fraxini*, *Cryptovalsa sparsa*, *Diatrype Macounii*, *D. hochelagæ*, *Dyatrypella vitis*, *D. demetrionis*, *Ceratostomella mali*, *Ceratostoma juniperinum*, *C. parasiticum*, *C. conicum*, *Rosellinia albolanata*, *R. glandiformis*, *R. parasitica*, *R. Kellermanni*, *R. Langloisii*, *Anthostoma Ontariensis*, *Anthostomella Ludoviciana*, *Hypoxylon albocinctum*, *Poronia leporina*, *Physalospora zeicola*, *P. conica*, *P. pandani*, *Laestadia orientalis*, *L. apocyni*, *Sphærella conigena*, *S. spinicola*, *S. ciliata*, *S. angelicæ*, *S. macluræ*, *S. polifolia*, *Didymella Canadensis*, *D. cornuta*, *D. andropogonis*, *D. mali*, *Venturia parasitica*, *V. sabalicola*, *Diaporthe columbiensis*, *D. (Euporthe) leucosarca*, *D. crinigera*, *D. comptoniæ*, *D. Americana*, *D. megalospora*, *Didymosphæria andropogonis*, *Melanconis salicina*, *Valsaria salicina*, *Leptosphæria macluræ*, *L. steironematis*, *L. brunellæ*, *L. folliculata*, *Metasphæria rubida*, *Pleospora diaportheoides*, *P. hyalospora*, *Pyrenophora Zabriskiana*, *Fenestella amorpha*, *Ophiobolus trichisporus*, *Melanomma Commonsii*, *M. tectonensis*, *M. parasiticum*, *Wintera tuberculifera*, *Cucurbitaria Kelseyi*, *C. fraxini*, *C. setosa*, *Teichospora mammoides*, *T. mycogena*, *T. umbonata*, *T. papillosa*, *T. megastega*, *T. helenæ*, *T. Kansensis*, *Hypocrea pallida*, *H. melaleuca*, *Calonectria Dearnessii*, *Thyronectria chrysogramma*, *Chilonectria crinigera*, *Nectria diplocarpa*, *N. Sambuci*, *N. athroa*, *N. mammoidea*, *N. pithoi-*

*des*, *N. sulphurata*, *Homostegia Kelseyii*, *Dothidea Bigeloviae*, *Plowrightia staphyliana*, *P. symphoricarpi* and *Curreya shepherdiae*. Under *Valsa glandulosa*, Cke., the authors state that specimens examined by them from several parts of the United States have the ostiola distinctly 4-5 sulcate. They therefore place it in the sub-genus *Eutypella* and take issue with Cooke who has described specimens from one of the same localities as a new species, *Valsa clavulata* [Grevillea, xviii. 86]. A. H.

*Fungi—New species of Montana.* J. B. Ellis and F. W. Anderson. (Bot. Gaz. xvi. 45-49, Pl. vii and figs. in text).

*Lentinus pholiotoides*, *Phoma ilicina*, *Coniothyrium ilicinum*, *Dothiorella Nelumbii*, *Volutella occidentalis* (Pl. vii, f. 1-6), *V. occidentalis*, var. *minor*, *Sporidesmium sorisporoides*, *Macrosporium puccinioides*, (Pl. vii, f. 7-11), *Æcidium Liatridis*, *Æ. Cleomis*, *Æ. Chrysopsidis*, *Pestalotiella Andersonii* (Pl. vii, f. 12-14) and *Helotium Montaniense*—the latter figured in the text.

*Grasses—New.* Geo. Vasey. (Bot. Gaz. xvi. 26-27).

The following new species and varieties are described : *Sporobolus pilosus*, from Kansas, *Bouteloua uniflora*, from Texas, and *Andropogon macrourus*, Michx., var. *pumilus*, also from Texas.

*Hyphomycetes.—On certain New or Peculiar North American—I.*

Roland Thaxter. (Bot. Gaz. xvi. 14-26; Pl. iii. and iv).

The new species described are *Ædocephalum echinulatum*, *Æ. verticillatum* and *Rhopalomyces strangulatus*. A new genus, *Sigmoideomyces*, is described, with a single species, *S. dispiroides*. A synopsis of the described species of *Ædocephalum* and *Rhopalomyces* is appended. The plates include the above named species, besides *Rhopalomyces elegans*, Corda, *Ædocephalum glomerulosum*. (Bull) Sacc., and *O. pallidum* (B. & Br.) Cost.

A. H.

*Juglans Vilmoriniana.*—M. L. de Vilmorin, (Gard. & For. iv. 51, 52, f. 11 and 12).

Account and description of a supposed hybrid between *Juglans regia* and *J. nigra*. The tree was planted as a seedling in a garden at Verriers, near Paris, and is now about seventy-five years old. Nothing is known of its origin. The seeds germinate readily, produce plants similar to the parent and these in turn

produce fertile fruit. It is of interest in this connection to recall the description of the "Row Farm Walnut tree," (For. Leaves, ii. 133, 134), which is supposed to be a similar hybrid.

*Labiatae*.—*A Key to the North American Genera of the*. Alfred C. Stokes. (Bot. Gaz. xvi. 49-52).

*Les Piperacées de l'Ecuador, de la Nouvelle-Grenade et du Pérou, de la collection de M. Ed André*, par M. C. De Candolle (Jour. de Bot. iv. 395-399).

Thirty-four species of *Piper* are enumerated in the collection of M. André, of which six are new, and of the genus *Piperomia* there are 45 species, of which ten are described for the first time. The actual number of Piperaceæ known from Ecuador and New Grenada is 139, 93 belonging to the genus *Piper* and 46 to the genus *Piperomia*.

*Loti*.—*Enumeration of the North American*. Edward L. Greene. (Pittonia, ii. 133-150).

After a critical study of the Old World specimens of *Lotus* contained in the eastern herbaria, in connection with a study of the types of most of the American species, Prof. Greene concludes that the plants usually referred to *Hosackia*, Benth. and *Syrmatium*, Vogel, are generically inseparable from the true *Loti*. He enumerates 55 species, three of which are described as new. *Lotus Tree*.—*Parry's*. Albert Kellogg. (West Am. Sci. vii, 63-66, illustrated).

Contains descriptions of *Zizyphus Lotus*, *Z. vulgaris*, *Z. jujube*, *Z. xylopyrus*, and *Z. Parryi*—the latter figured.

*Memoirs of the Torrey Botanical Club, Vol. ii. No. 2.* (P. 27-56; 2 plates).

This number of the Memoirs, issued Dec. 23rd, contains an account by Miss Anna Murray Vail of the Spring Flora of South-western Virginia, as noted by a party who spent some days in exploring that region in May and June, 1890. The paper is annotated by Dr. Britton, who describes the following plants as new:—

*Clematis Addisonii*, named in honor of the president of the Club (*C. ovata*, Torr. and Gray, not Pursh), *Pentstemon lævigatus*, var. *canescens*, and *Senecio aureus*, var. *angustifolius*; he

maintains *Ilex montana*, T. and G. (1848) as the correct name for the shrub usually called *I. monticola*, A. Gray (1856), and points out that *Arenaria stricta*, Michx., is the name which should be applied to *A. Michauxii*, Hook. f.; he maintains *Oxalis stricta*, L. as distinct from *O. corniculata*, and raises *Zizia aurea*, var. *Bebbii*, Coult. and Rose, to specific rank. Among the other most interesting plants noted are *Crepis pulchra*, L., a European Composite seen in large quantities along the railroad at Culpepper, *Veronica Anagallis* at Roanoke, not previously reported from so far south, *Anemone trifolia*, L., *Rhododendron canescens* (Michx.), Porter, and the introduced form of *Ranunculus sceleratus*, L. Miss Vail gives a complete enumeration of the flowering plants and ferns collected, taking up some old names, *Hepatica acutiloba*, DC. becoming *Anemone acuta* (Pursh) and *Trautvetteria palmata*, F. and M., becoming *T. Caroliniensis* (Walt.)

The Memoir also contains a paper by Mr. Arthur Hollick on the Autumn Flora of Southeastern Virginia, a record of a trip made in September. Among the more important finds were *Lespedeza striata*, *Andromeda nitida*, *Eleocharis ochreatea*, and *Panicum gibbum*, all apparently here first reported from the state.

*New or Noteworthy Species.* Edward L. Greene. (Pittonia, ii. 158).

*Sagittaria Sanfordi* and *Lathyrus Jepsoni*, from near Stockton, Cal., are described as new.

*Nicotiana colossa.* (Gard. Chron. ix. 84, f. 25).

*Nolina*—*A New.* T. S. Brandegee. (Zoe, i. 305, 306).

*Notes on North American Trees. XXIII.* C. S. Sargent. (Gard. and For. iv. 75, 76).

Critical notes upon *Rhamnus Caroliniana*, *R. Purshiana*, *R. rubra*, *R. Californica*, *R. occidentalis*, and *R. tomentella* are contributed.

*Notholaena Nealleyi*, Seaton. *Observations on the New Texas Fern as Described in "Contributions from the U. S. Herbarium,"* ii. p. 61, no 894, June, 1890, and a Mexican Fern collected by C.



*G. Pringle near Guadalajara in 1888.* Geo. E. Davenport. (Bot. Gaz. xvi. 53, 54).

The author makes use of the parallel column and concludes from the comparison of descriptions that *Notholæna Nealleyi*, Seaton, is not specifically distinct from *Notholæna* sp? Pringle No. 1864. The conclusion is that the latter should rank as a variety of the former and be known as *N. Nealleyi*, Seaton, var. *Mexicana*.

*Quebracho, Part I.* H. H. Rusby. (Reprint from Bull. Pharm. Jan. 1891, illustrated).

An illustrated account of *Aspidosperma Quebrachoblanco* and its confusion with *A. Colorado*.

*Rafinesque—Some Genera of.* Edward L. Greene. (Pittonia, ii. 120-133).

Professor Greene points out that *Lepargyræa*, Raf. antedates *Shepherdia*, Nutt. by about a year, and transfers our three described species to that genus, that *Ioxylon*, Raf. has about equal precedence over *Maclura*, Nutt. the proper name for the Osage Orange being *I. pomiferum*, Raf. and that *Bolelia*, Raf. should replace *Downingia*, Torr.; he takes up *Micrampelis*, Raf. for *Echinocystis*, Torr. and Gray, and *Megarrhiza*, Torr., following the point made by Mr. Jas. Britten in Journ. Bot. xxvi. 261 (1888), and recognizes *Ptiloria*, Raf. (1832) as prior to *Stephanomeria*, Nutt. (1841), consisting of 16 species, two of which are here first described.

*Ranunculaceæ aus dem Westlichen Nord Amerika, gesammelt in Auftrage Dr. Dieck's-Zoschen.* Bestimmt von J. Freyn. (Deutsche Bot. Monats. viii. 73-79).

This is an enumeration of the Ranunculaceæ collected in British Columbia, Montana and Oregon, by the expedition sent by Dr. Dieck in 1887 and 1888 under the charge of Dr. Röhl. The following species are given: *Clematis ligusticifolia*, T. and G.; *C. Pseudoatragene*, O. Kuntze, var. *normalis*, O. Kuntze (*C. verticillaris*, DC.); *Thalictrum occidentale*, A. Gray; *T. Cornuti*, Lawson, not L., which is apparently what we now know as *T. polygamum*, Muhl.; *Pulsatilla occidentalis*, Freyn (*Anemone occidentalis*, S. Wats; *Anemone parviflora*, Michx; *Anemone*

*cyanea*, Freyn, sp. nov., which is pretty clearly *A. Grayi*, Kellogg and Behr; *Anemone multifida*, Poir., var. *globosa*, T. and G.; *Trautvetteria grandis*, Nutt.; *Ranunculus longirostris*, Godron, (*R. circinatus*, A. Gray); *R. Grayanus*, Freyn. n. subsp. (*R. aquatilis heterophyllus*, T. and G.); *R. radicans*, C. A. Meyer (*R. multifidus*, var., *repens*, S. Wats; *R. natans*, A. Gray, not C. A. Meyer); *R. Cymbalaria*, Pursh; *R. reptans*, L., var., *strigulosus*, Freyn; *R. Eschscholtzii*, Schlecht.; *Trollius Americanus*, Muhl. (*T. laxus*, Salisb. must replace this, as Muhlenberg's name is without description); *Delphinium variegatum*, T. and G. and *D. bicolor*, Nutt. N. L. B.

*Rose Bay—Southern Stations of.* T. S. Brandege. (Zoe, i. 315.

Note on the occurrence of *Rhododendron Californicum* in Santa Cruz Co., Cal.

*Sarcodes sanguinea.* Thos. Meehan. (Bot. Gaz. xvi. 54).

In this note the author contends that this plant is not a root-parasite but a saprophyte.

*Tricuspidaria dependens.* (Bot. Mag., T. 7160).

*Two New Plants from the Cascade Mountains.* B. L. Robinson. (Bot. Gaz., xxi. 43-45. Pl. vi).

*Luina Piperi* and *Silene Suksdorfii* are described and figured as new, collected by Mr. C. V. Piper. The *Silene* had previously been found by Mr. Suksdorf.

*Undescribed Plants from Guatemala. VIII.* John Donnell Smith. (Bot. Gaz., xvi. 1-14, Pl. i. and ii).

Description of the following new species and varieties are given by Capt. Smith, M. A. Cogniaux, Dr. Masters and others. *Bocconia vulcanica*, *Chorisia soluta*, *Myrodia Guatemalteca*, *Heteropteris retusa*, *Rubus occidentalis* L., var. *grandiflora*, *Potentilla Donnell-Smithii*, *Agrimonia parviflora*, Ait., var. *macrocarpa*, *Tibouchina Bourgaeana*, *Monochaetum diffusum*, *Conostegia hirtella*, *Miconia Guatemalensis*, *M. Tuerckheimii*, *Clidemia laxiflora*, Walp., var. *longipetiolata*, *C. Donnell-Smithii*, *Jussiaea Peruviana*, L., var. *glaberrima*, *J. pilosa*, H.B.K., var. *robustior*, *Passiflora clypeophylla*, *P. allantophylla*, *P. transversa*, *P. ornithoura*, *P. dictiophylla*, *Melothria Donnell-Smithii*, *M.*

*Donnell-Smithii* vars. *hirtella* and *rotundifolia*, *Anguria oblongifolia*, *A. diversifolia*, *Gurania Donnell-Smithii*, *Sicyos longisepalus*, *Cephaelis glomerulata*, (Pl. i.) *Lobelia laxiflora*, H.B.K., var. *insignis*, *Macleania cordata*, Lem., var. *linearifolia*, *Arctostaphylos pungens*, H.B.K., var. *cratericola*, *Daphnopsis Tuerckheimiana*, *Myriocarpa longipes*, Liebm., var. *Yzabalensis* and *Triuris brevistylis*. *Solanum olivæforme*, previously described, is figured on Pl. ii. There is also a note to the effect that the plant described as *Nephrodium duale*. (Bot. Gaz. xv. 29) should be referred to *Aspidium ascendens*, or better designated as *Nephrodium ascendens*. *Viburnum molle*. C. S. S. (Gard. and For. iv, 29, p. 8.) *Viola hastata*. (Gard. and For. iv. 76, p. 16). *Viola ocellata*. (Gard. and For. iv. 51, p. 13). *Woodwardia radicans*. W. H. Gower. (Gard. xxxix. 127, illustrated).

### Proceedings of the Club.

WEDNESDAY EVENING, JAN. 28.

Dr. Thos. Morong in the Chair and 28 persons present.

Mrs. E. Dwight Kendall, Miss Sabin G. Ayres and Mr. J. K. Haywood were elected active members.

Dr. Northrop read the announced paper of the evening, "Notes on the Flora of the Bahamas," illustrated by specimens and lantern views.

TUESDAY EVENING, FEB. 11.

The President in the Chair and 13 persons present.

Miss Helen Lauterbach was elected an active member.

Prof. Byron D. Halsted read the announced paper on "Root Decays of the Sweet Potato," illustrated by diagrams. He described the several fungi which attack the roots, causing the several kinds of decay. (See Bulletin New Jersey Agric. Exper. Station No., 76).

Dr. Britton exhibited a bramble collected by Dr. C. F. Mills-paugh on the mountains of West Virginia, peculiar in its entirely unarmed stem and glabrous, acuminate leaflets, for which he proposed the name *Rubus Millspaughii*.